

UbiBot® GS1-AETH1RS-S is an industrial-grade cloud-based environmental monitoring data logger. It supports WiFi and Ethernet 2 types of connection; the RJ45 network cable port provides more stable network connection. This model is embedded with internal temperature, humidity and ambient light sensors. It detects environmental data all day round and automatically syncs all data to the UbiBot® IoT cloud platform, allowing you to access data and monitor the environment remotely from anywhere in the world via the free UbiBot APP or Web Console and to receive real-time alerts.

It supports all 5V and 12V UbiBot RS485 probes, but only one of each type can be connected at a time.

The device supports three types of power supply: internal lithium battery, Type-C 5V (USB cable provided), and DC 12V (not included). The 2900mA lithium battery ensures a long working time.

When supporting 12V RS485 probes, DC12V adapter must be connected.



FEATURES

- Built-in temperature, humidity, and ambient light sensors
 - 2.4 GHz WiFi and RJ45 Ethernet 2 types of network connection, no need of hubs or gateways
 - Supporting **all 5V and 12V UbiBot RS485 probes**; only one of each type can be connected at a time
 - Industrial-grade shell, strong and durable
 - 4" high-quality LCD screen displaying current environmental conditions
 - Free App & Web Console to access and monitor real-time data remotely, no subscription fee
 - Unlimited UbiBot cloud storage for historical data; free historical data export
 - Multiple ways of real-time alerts: App notifications, emails, phone calls, SMS, HTTP
 - Working with IFTTT, Google Sheet, Alexa
 - Easy setup with free UbiBot App or PC tools
 - Memory with a capacity of 300,000 records stores all data even if the network is temporarily disconnected, which ensures there are no gaps in the data history
 - Three types of power supply: internal lithium battery, Type-C 5V (USB cable provided), and DC 12V (not included)
- When supporting 12V RS485 probes, DC12V adapter must be connected.
- Compliance with CE, EN 12830, FCC, FDA CFR21, IC, RCM, RoHS, TELEC

NOTE:

- GS1-AETH1RS-S only supports **Ethernet switch with 100 Mbps or lower**. Gigabit switching hub with auto-negotiation is also compatible.
- Due to the RJ45 cable port, this version is **not waterproof**. The optimal operational environment is 10% to 90% RH. Long-term exposure to a high-humidity environment, over 90% RH, may cause damage to the device.
- As the Ethernet connection consumes a lot of power, we recommend you connect the external power supply all the time to ensure a constant performance.
- For WiFi connection, GS1-AETH1RS-S can **only work with a 2.4 GHz** WiFi network. 5 GHz WiFi is not supported.
- It supports **multiple 5V and 12V UbiBot RS485 external probes**, but only one of each type can be connected at a time. When supporting 12V RS485 probes, DC12V adapter must be connected.

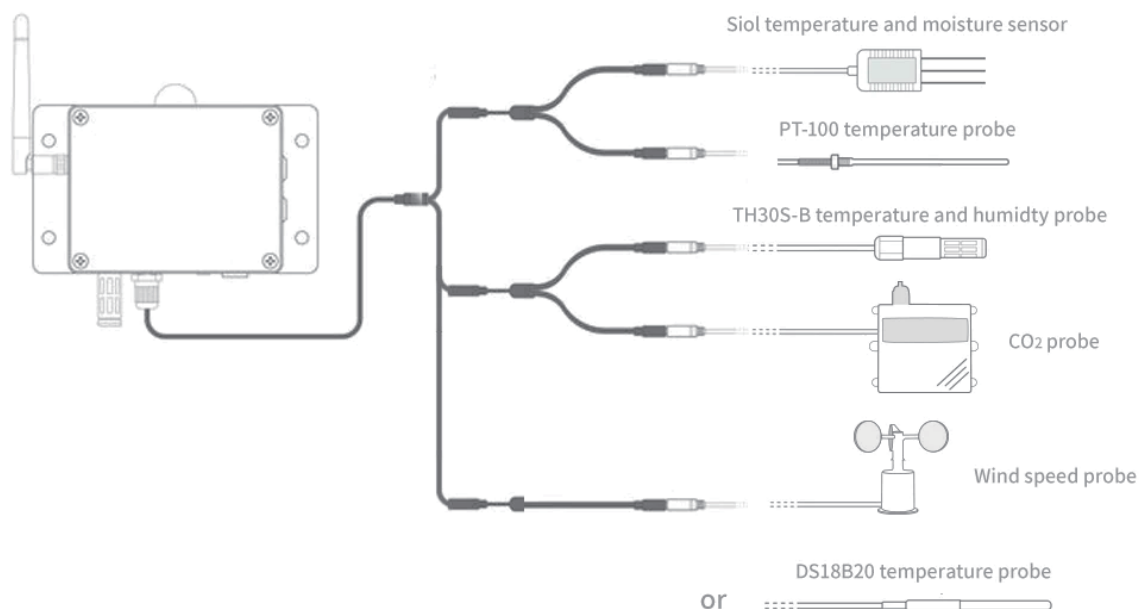
EXTERNAL PROBES & ACCESSORIES

- With splitters, it supports multiple UbiBot 5V and 12V RS485 probes:

- TH30S-B Temperature and Humidity Probe
- Soil Temperature and Moisture Sensor
- PT 100 Industrial-grade Temperature Probe
- Wind Speed Sensor
- CO2 Probe
- Smoke Sensor
- H2S Probe
- NH3 Probe
- Soil EC Probe
- Soil PH Probe
- Soil NPK probe
- Wind Direction Sensor
- Rainfall Probe
- Solar Radiation Sensor
- Atmosphere Pressure Sensor
- Leaf Wetness and Temperature Probe

Accessories

- UbiBot Audio Plug Splitter for connecting external probes
- UbiBot Audio Splitter - 1 male to 6 females for connecting external probes
- External Probe Extender - Audio Plug
- UbiBot POE Splitter for connecting both Ethernet cable and power supply simultaneously
- Solar Cell Panel More details
- 12V Power Adapter



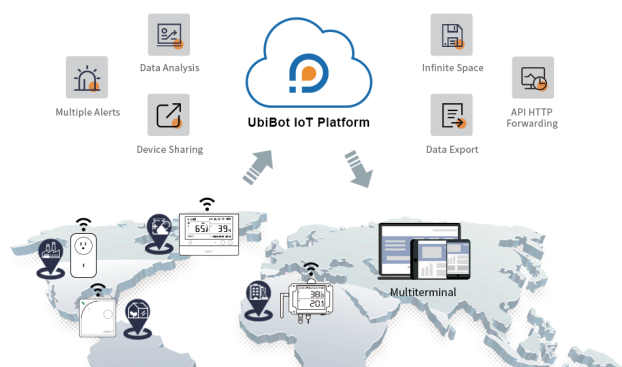
NOTE:

- Only one of each type of probe can be connected at a time .
- When supporting 12V RS485 probes, DC12V adapter must be connected.
- When connecting with multiple probes, please consider the limits of the fields (totally up to 10 fields).

SPECIFICATIONS

| Technical specifications | |
|--------------------------|---|
| Temperature | -20°C to 60°C(-4°F to 140°F) |
| Humidity | 10% to 90%, No condensation |
| Ambient light | 0-83k lux |
| Accuracy | Temperature $\pm 0.3^{\circ}\text{C}$, Humidity $\pm 3\%$, Ambient light $\pm 2\%$ |
| Memory | 300,000 sensor records |
| Network connection | |
| WiFi | 2.4GHz or 2.4/5GHz, channels 1-13 (5GHz WiFi NOT supported) |
| Ethernet | RJ45 Ethernet cable |
| Ethernet switch | 100 Mbps or lower |
| Physical specifications | |
| Materials | Flame resistant ABS & PC |
| Dimensions | 11.5 x 9 x 5.5 cm |
| Weight | 450g \pm 3 g |
| Colour | White |
| Screen | 4" LCD with backlight |
| Ports | 1xType-C;1x3.5 mm Audio;1xRJ45;1x5V RS485 probe connector;1x12V RS485 probe connector |
| Power Source | Internal Lithium batteries (2900 mAh); Type-C 5V (USB cable included); DC 12V (not included) |
| External probes | |
| External probes | Supporting all 5V and 12V UbiBot RS485 probes. When supporting 12V RS485 probes, DC12V adapter must be connected. When connecting with multiple probes, please consider the limits of the fields (totally 10 fields). |

UbiBot Cloud IoT Platform



Data Management: Manage all your IoT data in one place; you could add as many devices as you want to one UbiBot account.

Unlimited Storage: Unlimited cloud-based storage ensures you will never run out of space. This allows you to view all your historical data via UbiBot App or Web.

Free App & Web Console: Using **UbiBot App** and **Web Console** is free. Powerful and thoughtful features provide you brilliant experience.

Analysis and Visualization: Use powerful analysis and visualization tools to get the most out of your data; spot trends and direct comparisons.

Real-Time Alerts: Fully customizable alert system will notify you via **App notifications, emails, phone call/SMS, HTTP** whenever any metric goes out of the range preset.

Highly Secure Platform: UbiBot IoT platform is designed to keep all your data secure so you never have to worry about hackers or other security issues.

Third-Party Services: Working with **IFTTT, Alexa, Google Assistant, Google Sheet**

Compliant with FDA CFR21